

CLAIMS

I Claim:

1. A conveyor belt alignment system, comprising:
a mounting plate for attaching to a structure;
an adjustment structure adjustably attached to said mounting plate;
a support frame adjustably positioned upon said adjustment structure;
a plurality of first idlers extending from said support frame; and
a plurality of second idlers extending from said support frame.

2. The conveyor belt alignment system of Claim 1, wherein said adjustment structure is comprised of a first plate attached to a second plate forming an L-shaped structure.

3. The conveyor belt alignment system of Claim 2, wherein said second plate is adjustably attached to said mounting plate.

4. The conveyor belt alignment system of Claim 3, wherein said second plate has at least one second slot for receiving fasteners extending through said mounting plate.

5. The conveyor belt alignment system of Claim 4, wherein said second slot is vertically orientated.

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2 6. The conveyor belt alignment system of Claim 2, wherein said support frame
3 is adjustably attached to said first plate.

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6 7. The conveyor belt alignment system of Claim 6, wherein said first plate has
7 at least one first slot for receiving fasteners extending through said support frame.

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10 8. The conveyor belt alignment system of Claim 6, wherein said first plate has
11 at least one first slot for receiving fasteners extending through said support frame,
12 wherein said second plate has at least one second slot for receiving fasteners extending
13 through said mounting plate, wherein said first slot is transversely orientated with
14 respect to said second slot.

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16 9. The conveyor belt alignment system of Claim 1, wherein said first idlers are
17 positionable on opposite surfaces of a conveyor belt for vertical alignment of a
18 conveyor belt.

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20 10. The conveyor belt alignment system of Claim 1, wherein said second idlers
21 are positionable on a same side of a conveyor belt for horizontal alignment of a
22 conveyor belt.

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25 11. A conveyor belt alignment system, comprising:
26 a mounting plate for attaching to a structure;
27 an adjustment structure adjustably attached to said mounting plate;
28 a support frame adjustably positioned upon said adjustment structure;

1 a plurality of first idlers extending from said support frame in a parallel
2 manner; and

3 a plurality of second idlers extending from said support frame in a parallel
4 manner substantially transverse with respect to said first idlers.

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7 12. The conveyor belt alignment system of Claim 11, wherein said adjustment
8 structure is comprised of a first plate attached to a second plate forming an L-shaped
9 structure.

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12 13. The conveyor belt alignment system of Claim 12, wherein said second plate
13 is adjustably attached to said mounting plate.

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16 14. The conveyor belt alignment system of Claim 13, wherein said second plate
17 has at least one second slot for receiving fasteners extending through said mounting
18 plate.

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21 15. The conveyor belt alignment system of Claim 14, wherein said second slot
22 is vertically orientated.

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25 16. The conveyor belt alignment system of Claim 12, wherein said support
26 frame is adjustably attached to said first plate.

1 17. The conveyor belt alignment system of Claim 16, wherein said first plate
2 has at least one first slot for receiving fasteners extending through said support frame.

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5 18. The conveyor belt alignment system of Claim 16, wherein said first plate
6 has at least one first slot for receiving fasteners extending through said support frame,
7 wherein said second plate has at least one second slot for receiving fasteners extending
8 through said mounting plate, wherein said first slot is transversely orientated with
9 respect to said second slot.

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11 19. The conveyor belt alignment system of Claim 11, wherein said first idlers
12 are positionable on opposite surfaces of a conveyor belt for vertical alignment of a
13 conveyor belt, and wherein said second idlers are positionable on a same side of a
14 conveyor belt for horizontal alignment of a conveyor belt.

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17 20. A conveyor belt alignment system, comprising:
18 a mounting plate for attaching to a structure;
19 an adjustment structure adjustably attached to said mounting plate;
20 a support frame adjustably positioned upon said adjustment structure;
21 a plurality of first idlers extending from said support frame in a parallel
22 manner;
23 a plurality of second idlers extending from said support frame in a parallel
24 manner substantially transverse with respect to said first idlers;
25 wherein said adjustment structure is comprised of a first plate attached to a
26 second plate forming an L-shaped structure;
27 wherein said second plate is adjustably attached to said mounting plate;
28 wherein said support frame is adjustably attached to said first plate;

1 wherein said first plate has at least one first slot for receiving fasteners
2 extending through said support frame, wherein said second plate has at least one
3 second slot for receiving fasteners extending through said mounting plate, wherein said
4 first slot is transversely orientated with respect to said second slot; and

5 wherein said first idlers are positionable on opposite surfaces of a conveyor belt
6 for vertical alignment of a conveyor belt, and wherein said second idlers are
7 positionable on a same side of a conveyor belt for horizontal alignment of a conveyor
8 belt.